Daniel Lacour

List of Publications by Year
in descending order

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120 papers	2,702 citations	172207 29 h-index	214527 47 g-index
125 all docs	125 docs citations	125 times ranked	3071 citing authors

#	Article	IF	Citations
1	Light-induced magnetization reversal of high-anisotropy TbCo alloy films. Applied Physics Letters, 2012, 101, .	1.5	158
2	Nanometer Scale Observation of High Efficiency Thermally Assisted Current-Driven Domain Wall Depinning. Physical Review Letters, 2005, 95, 117203.	2.9	149
3	Artificial Kagome Arrays of Nanomagnets: A Frozen Dipolar Spin Ice. Physical Review Letters, 2011, 106, 057209.	2.9	116
4	Switching the magnetic configuration of a spin valve by current-induced domain wall motion. Journal of Applied Physics, 2002, 92, 4825-4827.	1.1	106
5	Fragmentation of magnetism in artificial kagome dipolar spin ice. Nature Communications, 2016, 7, 11446.	5.8	99
6	Experimental study of spin-wave dispersion in Py/Pt film structures in the presence of an interface Dzyaloshinskii-Moriya interaction. Physical Review B, 2015, 91, .	1.1	98
7	Wide range and tunable linear magnetic tunnel junction sensor using two exchange pinned electrodes. Applied Physics Letters, 2009, 95, .	1.5	82
8	Thermal effects on the magnetic-field dependence of spin-transfer-induced magnetization reversal. Applied Physics Letters, 2004, 85, 4681-4683.	1.5	69
9	Spin-orbit torque-induced switching in ferrimagnetic alloys: Experiments and modeling. Applied Physics Letters, 2018, 112, .	1.5	69
10	Unidirectional Thermal Effects in Current-Induced Domain Wall Motion. Physical Review Letters, 2012, 109, 106601.	2.9	60
11	Angular dependence of the tunnel magnetoresistance in transition-metal-based junctions. Physical Review B, 2001, 64, .	1.1	58
12	Field sensing using the magnetoresistance of IrMn exchange-biased tunnel junctions. Journal of Applied Physics, 2002, 91, 4655-4658.	1.1	55
13	Ferroelectric Control of Organic/Ferromagnetic Spinterface. Advanced Materials, 2016, 28, 10204-10210.	11.1	55
14	Thermal Contribution to the Spin-Orbit Torque in Metallic-Ferrimagnetic Systems. Physical Review Applied, 2018, 9, .	1.5	52
15	X-ray diffraction, microstructure, MÃ¶ssbauer and magnetization studies of nanostructured Fe50Ni50 alloy prepared by mechanical alloying. Journal of Magnetism and Magnetic Materials, 2008, 320, 1385-1392.	1.0	46
16	Magnetic field SAW sensors based on magnetostrictive-piezoelectric layered structures: FEM modeling and experimental validation. Sensors and Actuators A: Physical, 2016, 240, 41-49.	2.0	46
17	Unipolar and Bipolar High-Magnetic-Field Sensors Based on Surface Acoustic Wave Resonators. Physical Review Applied, 2017, 8, .	1.5	43
18	Large inverse magnetoresistance in fully epitaxial Feâˆ•Fe3O4âˆ•MgOâˆ•Co magnetic tunnel junctions. Applied Physics Letters, 2008, 92, 053508.	1.5	42

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19	Magnetoresistive effects in perpendicularly magnetized Tb-Co alloy based thin films and spin valves. Journal of Applied Physics, 2012, 111, .	1.1	42
20	Chiral nature of magnetic monopoles in artificial spin ice. New Journal of Physics, 2013, 15, 035026.	1.2	40
21	Experimental evidence of multiple stable locations for a domain wall trapped by a submicron notch. Applied Physics Letters, 2004, 84, 1910-1912.	1.5	37
22	Long-Range Phase Coherence in Double-Barrier Magnetic Tunnel Junctions with a Large Thick Metallic Quantum Well. Physical Review Letters, 2015, 115, 157204.	2.9	37
23	Measurement of the Dynamical Dipolar Coupling in a Pair of Magnetic Nanodisks Using a Ferromagnetic Resonance Force Microscope. Physical Review Letters, 2012, 109, 247602.	2.9	36
24	Localized states in advanced dielectrics from the vantage of spin- and symmetry-polarized tunnelling across MgO. Nature Communications, 2014, 5, 4547.	5.8	36
25	Reversal mechanism, switching field distribution, and dipolar frustrations in Co/Pt bit pattern media based on auto-assembled anodic alumina hexagonal nanobump arrays. Physical Review B, 2014, 89, .	1.1	36
26	Nonuniversality of artificial frustrated spin systems. Physical Review B, 2014, 90, .	1.1	35
27	Kinetic pathways to the magnetic charge crystal in artificial dipolar spin ice. Physical Review B, 2014, 90, .	1.1	34
28	A tunable magnetic metamaterial based on the dipolar four-state Potts model. Nature Materials, 2018, 17, 1076-1080.	13.3	34
29	Domain structures during magnetization reversal in exchange-biased layers. Journal of Applied Physics, 2002, 91, 7745.	1.1	29
30	Anisotropic magnetothermal transport and spin Seebeck effect. Physical Review B, 2014, 89, .	1.1	29
31	Size distribution of magnetic charge domains in thermally activated but out-of-equilibrium artificial spin ice. Scientific Reports, 2014, 4, 5702.	1.6	29
32	Magnetic properties of postoxidized Ptâˆ•Coâˆ•Al layers with perpendicular anisotropy. Applied Physics Letters, 2007, 90, 192506.	1.5	28
33	Telegraph noise due to domain wall motion driven by spin current in perpendicular magnetized nanopillars. Applied Physics Letters, 2009, 94, .	1.5	28
34	Stochastic and complex depinning dynamics of magnetic domain walls. Physical Review B, 2011, 83, .	1.1	26
35	Periodic arrays of magnetic nanostructures by depositing Co/Pt multilayers on the barrier layer of ordered anodic alumina templates. Applied Physics Letters, 2012, 101, .	1.5	25
36	Temperature compensated magnetic field sensor based on love waves. Smart Materials and Structures, 2020, 29, 045036.	1.8	24

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37	Tunneling magnetoresistance and induced domain structure inAl2O3-based junctions. Physical Review B, 2000, 61, 11643-11648.	1.1	23
38	Linking Electronic Transport through a Spin Crossover Thin Film to the Molecular Spin State Using X-ray Absorption Spectroscopy Operando Techniques. ACS Applied Materials & Interfaces, 2018, 10, 31580-31585.	4.0	22
39	Coherent Resonant Tunneling through Double Metallic Quantum Well States. Nano Letters, 2019, 19, 3019-3026.	4.5	22
40	Intrinsic versus shape anisotropy in micro-structured magnetostrictive thin films for magnetic surface acoustic wave sensors. Smart Materials and Structures, 2019, 28, 12LT01.	1.8	21
41	Laser-induced ultrafast demagnetization and perpendicular magnetic anisotropy reduction in a Co88Tb12 thin film with stripe domains. Physical Review B, 2020, 102, .	1.1	21
42	360Â° domain wall generation in the soft layer of magnetic tunnel junctions. Applied Physics Letters, 2008, 92, .	1.5	20
43	Spin-orbit coupling effect by minority interface resonance states in single-crystal magnetic tunnel junctions. Physical Review B, 2012, 86, .	1.1	20
44	Enhanced Performance Love Wave Magnetic Field Sensors With Temperature Compensation. IEEE Sensors Journal, 2020, 20, 11292-11301.	2.4	20
45	Magnetic domain wall propagation in a submicron spin-valve stripe: Influence of the pinned layer. Applied Physics Letters, 2008, 92, .	1.5	19
46	Impact of electron-electron interactions induced by disorder at interfaces on spin-dependent tunneling in Co-Fe-B/MgO/Co-Fe-B magnetic tunnel junctions. Physical Review B, 2010, 82, .	1.1	19
47	Faster chiral versus collinear magnetic order recovery after optical excitation revealed by femtosecond XUV scattering. Nature Communications, 2020, 11, 6304.	5.8	19
48	Asymmetric magnetization reversal in dipolarly coupled spin valve structures with perpendicular magnetic anisotropy. Physical Review B, 2012, 85, .	1.1	18
49	Real time atomic force microscopy imaging during nanogap formation by electromigration. Nanotechnology, 2012, 23, 365302.	1.3	18
50	Using antiferromagnetic/ferromagnetic bilayers as detection layers in magnetic tunnel junctions. Applied Physics Letters, 2003, 83, 4372-4374.	1.5	16
51	On the control of spin flop in synthetic antiferromagnetic films. Journal of Applied Physics, 2011, 109, 103911.	1.1	16
52	Direct Imaging of Chiral Domain Walls and NÃ©elâ€Type Skyrmionium in Ferrimagnetic Alloys. Advanced Functional Materials, 2021, 31, 2102307.	7.8	16
53	Wireless Multifunctional Surface Acoustic Wave Sensor for Magnetic Field and Temperature Monitoring. Advanced Materials Technologies, 2022, 7, 2100860.	3.0	15
54	An Original Supramolecular Helicate from a Bipyridine-Bipyrazine Ligand Strand and NiII by Self-Assembly. European Journal of Inorganic Chemistry, 2006, 2006, 133-136.	1.0	14

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55	Impact of buffer layer and Pt thickness on the interface structure and magnetic properties in (Co/Pt) multilayers. Journal of Physics Condensed Matter, 2016, 28, 336005.	0.7	14
56	Anomalous and planar Righi-Leduc effects in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ni</mml:mi><mml:mn>80</mml:mn></mml width="0.16em" /><mml:msub><mml:mi>Fe</mml:mi><mml:mn>20</mml:mn></mml:msub></mml:mrow></mml:math> ferromagnets. Physical Review B, 2016, 94, .	1.1	14
57	Spin dependent transport: GMR & TMR. Comptes Rendus Physique, 2005, 6, 945-955.	0.3	13
58	Large area patterned magnetic films by depositing cobalt layers on nano-wrinkled polydimethylsiloxane templates. Applied Physics Letters, 2013, 103, 072404.	1.5	13
59	Enhanced magnetoresistance by monoatomic roughness in epitaxial Fe/MgO/Fe tunnel junctions. Physical Review B, 2015, 91, .	1.1	13
60	Probing a Device's Active Atoms. Advanced Materials, 2017, 29, 1606578.	11.1	13
61	Magnetic vortices in single crystalline Fe-V disks with four folds magnetic anisotropy. Applied Physics Letters, 2012, 100, 192406.	1.5	12
62	Thermally activated domain wall motion in [Co/Ni](111) superlattices with perpendicular magnetic anisotropy. Applied Physics Letters, 2015, 106, .	1.5	12
63	Local Magnetic Anisotropy Induced by a Nano-Modulated Substrate and Application to Two-Dimensional Magnetic Sensors. Applied Physics Express, 2010, 3, 073002.	1.1	11
64	Experimental Study of Multilayer Piezo-magnetic SAW Delay Line for Magnetic Sensor. Procedia Engineering, 2015, 120, 870-873.	1.2	11
65	Phase diagram in exchange-coupled CoTb/[Co/Pt] multilayer-based magnetic tunnel junctions. Physical Review B, 2015, 92, .	1.1	11
66	Extraordinary Hall effect based magnetic logic applications. Applied Physics Letters, 2015, 106, .	1.5	11
67	Tunneling Spintronics across MgO Driven by Double Oxygen Vacancies. Advanced Electronic Materials, 2017, 3, 1600390.	2.6	11
68	Microstructured Multilayered Surface-Acoustic-Wave Device for Multifunctional Sensing. Physical Review Applied, 2020, 14, .	1.5	11
69	On the use of exchange biased top electrodes in magnetic tunnel junctions. Journal of Magnetism and Magnetic Materials, 2004, 270, 403-406.	1.0	10
70	Spin-driven electrical power generation at room temperature. Communications Physics, 2019, 2, .	2.0	9
71	Magnetic anisotropy and domain duplication in transport properties of tunnel junctions. Physical Review B, 2000, 62, 11344-11346.	1.1	8
72	Domain duplication in magnetic tunnel junctions studied by Kerr microscopy. Physical Review B, 2001, 63, .	1.1	8

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73	Interfacial trapping for hot electron injection in silicon. Applied Physics Letters, 2013, 103, 022407.	1.5	8
74	Development of a magnetic tunnel transistor based on a double tunnel junction. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 1097-1099.	1.0	7
75	Influence of interfacial oxygen on single-crystal magnetic tunnel junctions. EPJ Applied Physics, 2008, 43, 357-361.	0.3	7
76	Strain-induced inverse magnetostriction measured on a single contacted Ni nanowire in a polymer matrix. Materials Research Express, 2014, 1, 045017.	0.8	7
77	Interfaces anisotropy in single crystal V/Fe/V trilayer. Journal of Magnetism and Magnetic Materials, 2014, 372, 233-235.	1.0	7
78	Statistical study of domain-wall depinning induced by magnetic field and current in an epitaxial Co/Ni-based spin-valve wire. Physical Review B, 2018, 98, .	1.1	7
79	Encoding Information on the Excited State of a Molecular Spin Chain. Advanced Functional Materials, 2021, 31, 2009467.	7.8	7
80	Tunable Stochasticity in an Artificial Spin Network. Advanced Materials, 2021, 33, e2008135.	11.1	7
81	Higgs and Goldstone spin-wave modes in striped magnetic texture. Physical Review B, 2022, 105, .	1.1	7
82	Hot-electron transport in 3-terminal devices based on magnetic tunnel junctions. Europhysics Letters, 2002, 60, 896-902.	0.7	6
83	Metalliclike behavior of the exchange coupling in (001) Fe/MgO/Fe junctions. Physical Review B, 2017, 96, .	1.1	6
84	Corbino magnetoresistance in ferromagnetic layers: Two representative examples <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ni</mml:mi><mml:mn>81</mml:mn></mml and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Co</mml:mi><mml:mn>83</mml:mn></mm Physical Review B, 2018, 98, .	1.1	6
85	Consolidated picture of tunnelling spintronics across oxygen vacancy states in MgO. Journal Physics D: Applied Physics, 2019, 52, 305302.	1.3	6
86	Probing the antiferromagnetic-paramagnetic transition in artificial spin ice by tuning interactions. Physical Review B, 2020, 101, .	1.1	6
87	Domain duplication in ferromagnetic sandwiches. Journal of Applied Physics, 2001, 89, 8006-8010.	1.1	5
88	Finite tunnel magnetoresistance at the compensation point of Sm1â^'xGdxAl2, a ferromagnetic electrode with zero magnetization. Applied Physics Letters, 2011, 98, 232504.	1.5	5
89	Electrical control of interfacial trapping for magnetic tunnel transistor on silicon. Applied Physics Letters, 2014, 104, 042408.	1.5	5
90	Magnetic tunnel transistor with a perpendicular Co/Ni multilayer sputtered on a Si/Cu(1â€‰0â€‰0) Schottky diode. Journal Physics D: Applied Physics, 2016, 49, 355003.	1.3	5

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91	Biochip based on arrays of switchable magnetic nano-traps. Sensors and Actuators B: Chemical, 2017, 251, 699-705.	4.0	5
92	Thickness and angular dependence of the magnetocurrent of hot electrons in a magnetic tunnel transistor with crossed anisotropies. Physical Review B, 2017, 96, .	1.1	5
93	Fe/MgO/Fe (100) textured tunnel junctions exhibiting spin polarization features of single crystal junctions. Applied Physics Letters, 2012, 100, 072408.	1.5	4
94	MgO magnetic tunnel junctions of enduring F-type upon annealing. Journal Physics D: Applied Physics, 2015, 48, 435004.	1.3	4
95	Lowâ€Energy Spin Precession in the Molecular Field of a Magnetic Thin Film. Annalen Der Physik, 2021, 533, 2000470.	0.9	4
96	Stability of a pinned magnetic domain wall as a function of its internal configuration. Journal of Applied Physics, 2015, 117, 023909.	1.1	3
97	Origins of large light induced voltage in magnetic tunnel junctions grown on semiconductor substrates. Journal of Applied Physics, 2016, 119, 023907.	1.1	3
98	Oxygen-vacancy driven tunnelling spintronics across MgO. Proceedings of SPIE, 2016, , .	0.8	3
99	Control of the magnetic response in magnetic field SAW sensors. , 2017, , .		3
100	Artifacts in magnetic force microscopy under in-plane applied magnetic field: Magnetic bubble as a case study. Journal of Magnetism and Magnetic Materials, 2020, 500, 166296.	1.0	3
101	Weak Stripe Angle Determination by Quantitative x-ray Magnetic Microscopy. Physical Review Applied, 2020, 14, .	1.5	3
102	Current-driven narrow domain wall depinning in perpendicular spin valves. IEEE Transactions on Magnetics, 2005, 41, 2618-2620.	1.2	2
103	Energy levels of interacting curved nanomagnets in a frustrated geometry: increasing accuracy when using finite difference methods. Journal of Physics Condensed Matter, 2013, 25, 296001.	0.7	2
104	Indirect localization of a magnetic domain wall mediated by quasi walls. Scientific Reports, 2015, 5, 9815.	1.6	2
105	Tunneling anisotropic magnetoresistance in fully epitaxial magnetic tunnel junctions with different barriers. Applied Physics Letters, 2018, 112, 242404.	1.5	2
106	Reversible response of a magnetic surface acoustic wave device with perpendicular magnetization. Journal Physics D: Applied Physics, 2020, 53, 305002.	1.3	2
107	Magnetoresistive properties of cobalt thin films grown by plasma-assisted atomic layer deposition. Journal Physics D: Applied Physics, 2021, 54, 105002.	1.3	2
108	Thermal spin-accumulation. , 2012, , .		1

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109	Towards Thermal Reading of Magnetic States in Hall Crosses. Physical Review Applied, 2018, 9, .	1.5	1
110	Transmission of high-energy electrons through metal-semiconductor Schottky junctions. Physical Review B, 2019, 100, .	1.1	1
111	Corrections to â€œEnhanced Performance Love Wave Magnetic Field Sensors With Temperature Compensationâ€•[Oct 20 11292-11301]. IEEE Sensors Journal, 2021, 21, 3956-3956.	2.4	1
112	Magneto-Resistance and Induced Domain Structure in Tunnel Junctions. Materials Research Society Symposia Proceedings, 2001, 674, 1.	0.1	0
113	Hot electron transport in 3-terminal devices based on magnetic tunnel junctions. , 0, , .		0
114	Spin-Hall effects: from the two-channel model to Dyakonov-Perel equations. , 2014, , .		0
115	Thermally activated domain wall motion in [Co/Ni](111) superlattices with perpendicular magnetic anisotropy. , 2015, , .		0
116	Anomalous and planar Righi-Leduc effects measured in ferromagnetic YIG and NiFe (Presentation) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.8	0
117	Artificial frustrated spin systems. , 2015, , .		0
118	Four states magnetic dots: a design selection by micromagnetic modeling. , 2016, , .		0
119	Spin-polarized resonant surface state in (1â€‰1â€‰1) Sm_{1â^'x}Gd_xAl₂, a zero-magnetization ferromagnet. Journal of Physics Condensed Matter, 2018, 30, 435501.	0.7	0
120	Multifunctional sensor (Magnetic field and temperature) based on Micro-structured and multilayered SAW device. , 2020, , .		0